

CLAIMS

1. A person tracking device comprising:
 - a person identification unit for capturing biological data of a person being tracked;
 - a location determining unit in communication with the person identification unit for capturing location data of the person being tracked; and
 - a wireless communication unit for communicating the captured biological and location data of the person being tracked to a tracking site.
2. The person tracking device as in claim 1 wherein the person identification unit is a biometric reader.
3. The person tracking device as in claim 2 wherein the biometric reader provides the ability for a remote user to record and validate biological data of the person being tracked.
4. The person tracking device as in claim 1 wherein the location determining unit is a Global Positioning System (GPS).
5. The person tracking device as in claim 1 wherein the wireless communication unit is a transceiver for operably communicating with the tracking site.
6. A system for an automated tracking of a person at a remote site comprising:
 - a person tracking device for capturing data related to biological and location data of a person being tracked;
 - a Global Positioning System (GPS) database, in communication with the person tracking device, for certifying the location data of the person being tracked;
 - a personal enrollment center including a master database for storing

biological and location data of the person being tracked, the master database in communication with the person tracking device; and

a communication network for operably connecting the person tracking device, the master database, and the GPS database;

wherein the tracking device compares the captured biometric data of the person being tracked with the stored biometric data of registered persons to validate the identity of the person being tracked or to record the captured biometric data of the person being tracked as a non-registered person, and communicates the captured data and location data to the master database.

7. The system as in claim 6 wherein the personal enrollment center further comprises:

an enrollment workstation for entering biometric and personal data, into the master database, of persons being registered; and

an Ethernet network for operably connecting the enrollment workstation and the master database to the communication network via an ISP.

8. The system as in claim 6 wherein the personal tracking device further comprises a biometric registration module for extracting the biometric data to be communicated to the master database via the communication network.

9. The system as in claim 6 wherein the personal tracking device further comprises a data recording module for assembling the biometric and tracking data to be communicated to the master database via the communication network.

10. The system as in claim 8 wherein the biometric recording module further comprises a biometric reader application interface for matching and validating the biometric data against a local stored user list, the list being compiled as a subset from the master database, and wherein the biometric data is assembled in an Extensible Markup Language (XML) message to be communicated via the communication network to update the master database.

11. The system as in claim 9 wherein the data recording module further comprises a GPS application interface for activating the GPS reader to retrieve location data from GPS satellites, wherein the location data, and date and time are assembled in a message queue record and communicated via the communication network to the master database.

12. The system as in claim 6 wherein the personal enrollment center further comprises a personal set module, operating on the server, for entering initial personal data into the master database;

13. The system as in claim 6 wherein the personal enrollment center further comprises an update module, operating on the server, for automatically communicating records to be tracked on the personal tracking device;

14. The system as in claim 12 wherein the personal enrollment center further comprises a tracking module, operating on the server, for providing tracking data to a report or a web screen.

15. The system as in claim 6 wherein the master database operates on a server, the server being a Windows 2000 server, an MSMQ server; an Internet Information server; a FrontPage 2002 server, a Microsoft Share Point Portal server, or the like.

16. The system as in claim 6 wherein the wireless communication network utilizes communication protocols, the communication protocols being Time Division Multiple Access (TDMA), Cellular Digital Packet Data (CDPD), or Global Management System/ General Packet Radio Service (GMS/GPRS).

17. A method for an automated tracking of persons at remote sites, the method comprising:

establishing a wireless network by providing a person tracking device at a remote site, the person tracking device comprising a biometric reader, a GPS receiver, a data recording module, and a transceiver in wireless communication with the network, and the network further comprising a GPS database and a personal enrollment center including a master database;

storing personal, picture and biometric data of registered persons in the master database;

capturing biometric data of a person being tracked via the biometric reader;

capturing location data of the person being tracked via the GPS receiver;

identifying the tracked person via a validation of the captured biometric data against pre-stored biometric data in the data recording module; and

communicating the captured biometric data and location data to update a tracking module associated with the master database or to record the captured biometric data of the person being tracked as a non-registered person within a personnel setup module.

18. The method as in claim 12, wherein storing personal and biometric data further comprises:

entering personal data using a web based form into the master database, the personal data being used to verify a relationship and status of each registered person; and

registering scanned fingerprints of each registered person using map points.

19. The method as in claim 12, wherein capturing biometric data further comprises:

scanning an appropriate finger of a tracked person on the biometric reader;

and

creating fingerprint data map points.

20. The method as in claim 12, wherein identifying of the tracked person

further comprises:

- utilizing name of the tracked person to select from pre-recorded list of registered persons; and

- performing visual confirmation using a stored picture of the selected registered person.

21. A method for enrolling a person in a personal tracking system, the method comprises:

- initiating a server database application for storing data of a person to be tracked;

- entering personnel data for storage in the server database; and

- forwarding the personnel data to a personnel tracking device.

22. A method for registering a person fingerprint on a person tracking device at a remote site, the method comprises:

- initiating a register fingerprint application;

- scanning an appropriate finger for recording map points;

- entering corresponding personnel, location, date and time data in a form; and

- forwarding recorded fingerprint map points, and entered data to a master database via a communication network.

23. A handheld tracking device comprising:

- a person identification unit for capturing biological data of a person being tracked;

- a location determining unit in communication with the person identification unit for capturing location data of the person being tracked; and

a wireless communication unit for communicating the captured biological and location data of the person being tracked to a tracking site.

24. The handheld tracking device as in claim 21 wherein the the handheld is selected from a laptop, a handheld computer, and a mobile telephone.